

What we claim is:

1. A composition of matter comprising Pseudomonas aeruginosa strain CHL004 growing on a solid matrix wherein said matrix is in an environment in the presence of sufficient phosphate to provide at least one stoichiometric equivalent amount of phosphate to lead.

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10 2. A composition of claim 1 wherein the support is a synthetic polymer.

15 3. A composition of claim 11 wherein the support is activated carbon.

20 4. A composition of matter comprising Pseudomonas aeruginosa strain CHL004 growing on a solid matrix wherein said matrix also contains iron.

25 5. A composition of claim 4 in an environment containing arsenic.

6. A composition of claim 4 in an environment containing cadmium.

*a<sup>2</sup>/J*